Title (en)
CLASS-D AMPLIFIER WITH HIGH DYNAMIC RANGE

Title (de)
KLASSE-D-VERSTÄRKER MIT HOHEM DYNAMIKBEREICH

Title (fr)
AMPLIFICATEUR DE CLASSE D À PLAGE DYNAMIQUE ÉLEVÉE

Publication
EP 3910791 B1 20230329 (EN)

Application
EP 21172592 A 20210506

Priority
• US 202063023915 P 20200513
• US 202117227583 A 20210412

Abstract (en)
[origin: EP3910791A1] A class-D amplifier with good signal-to-noise ratio (SNR) performance is shown. The class-D amplifier includes a loop filter, a pulse-width modulation signal generator, a gate driver, a power driver, and a feedback circuit, which are configured to establish a closed amplification loop. The feedback circuit is configured to establish a feedback path. The class-D amplifier further includes a feedback breaker. The feedback breaker breaks the feedback path in response to conditions in which there no-signal information in the class-D amplifier.

IPC 8 full level
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CPC (source: CN EP US)
H03F 1/26 (2013.01 - CN EP); **H03F 1/34** (2013.01 - CN); **H03F 3/181** (2013.01 - EP); **H03F 3/217** (2013.01 - CN US); **H03F 3/2173** (2013.01 - EP); **H03K 19/21** (2013.01 - US); H03F 2200/165 (2013.01 - EP US)

Designated contracting state (EPC)
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EP 3910791 A1 20211117; **EP 3910791 B1 20230329**; CN 113676144 A 20211119; TW 202143639 A 20211116; TW I746405 B 20211111; US 11552602 B2 20230110; US 2021359653 A1 20211118

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EP 21172592 A 20210506; CN 202110491382 A 20210506; TW 110115849 A 20210503; US 202117227583 A 20210412